

5000

HW #15



OIPE

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/070,222

DATE: 07/24/2002

TIME: 15:53:00

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF3\07242002\J070222.raw

```

3 <110> APPLICANT: GAIT, Michael J.
4   STETSENKO, Dmitry
6 <120> TITLE OF INVENTION: METHOD FOR COUPLING MOLECULES
8 <130> FILE REFERENCE: 2224/OK248
10 <140> CURRENT APPLICATION NUMBER: US 10/070,222
C--> 11 <141> CURRENT FILING DATE: 2002-07-10
13 <150> PRIOR APPLICATION NUMBER: PCT/GB00/03306
14 <151> PRIOR FILING DATE: 1999-08-27
16 <160> NUMBER OF SEQ ID NOS: 25
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 19
22 <212> TYPE: PRT
23 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: peptide N-terminal S-benzyl thioesters
28 <220> FEATURE:
29 <221> NAME/KEY: MISC_FEATURE
30 <222> LOCATION: (1)..(1)
31 <223> OTHER INFORMATION: where X is BnSCO
34 <220> FEATURE:
35 <221> NAME/KEY: MISC_FEATURE
36 <222> LOCATION: (19)..(19)
37 <223> OTHER INFORMATION: where X is CONH2
40 <400> SEQUENCE: 1
W--> 42 Xaa Arg Gln Ile Pro Lys Ile Trp Phe Pro Asn Arg Arg Lys Pro Phe
43.1      5      10      15
W--> 46 Lys Lys Xaa
50 <210> SEQ ID NO: 2
51 <211> LENGTH: 12
52 <212> TYPE: PRT
53 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: peptide N-terminal S-benzyl thioesters
58 <220> FEATURE:
59 <221> NAME/KEY: MISC_FEATURE
60 <222> LOCATION: (1)..(1)
61 <223> OTHER INFORMATION: where X is BnSCO
64 <220> FEATURE:
65 <221> NAME/KEY: MISC_FEATURE
66 <222> LOCATION: (12)..(12)
67 <223> OTHER INFORMATION: where X is CONH2
70 <400> SEQUENCE: 2

```

## RAW SEQUENCE LISTING

DATE: 07/24/2002

PATENT APPLICATION: US/10/070,222

TIME: 15:53:00

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF3\07242002\J070222.raw

```

W--> 72 Xaa Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Xaa
      73 1                5                10
      76 <210> SEQ ID NO: 3
      77 <211> LENGTH: 16
      78 <212> TYPE: PRT
      79 <213> ORGANISM: Artificial Sequence
      81 <220> FEATURE:
      82 <223> OTHER INFORMATION: peptide N-terminal S-benzyl thioesters
      84 <220> FEATURE:
      85 <221> NAME/KEY: MISC_FEATURE
      86 <222> LOCATION: (1)..(1)
      87 <223> OTHER INFORMATION: where X is BnSCO
      90 <220> FEATURE:
      91 <221> NAME/KEY: MISC_FEATURE
      92 <222> LOCATION: (16)..(16)
      93 <223> OTHER INFORMATION: where X is CONH2
      96 <400> SEQUENCE: 3
W--> 98 Xaa Pro Thr Ser Gln Ser Arg Gly Asp Pro Thr Gly Pro Lys Glu Xaa
      99 1                5                10                15
      102 <210> SEQ ID NO: 4
      103 <211> LENGTH: 26
      104 <212> TYPE: PRT
      105 <213> ORGANISM: Artificial Sequence
      107 <220> FEATURE:
      108 <223> OTHER INFORMATION: peptide N-terminal S-benzyl thioesters
      110 <220> FEATURE:
      111 <221> NAME/KEY: MISC_FEATURE
      112 <222> LOCATION: (1)..(1)
      113 <223> OTHER INFORMATION: where X is BnSCO
      116 <220> FEATURE:
      117 <221> NAME/KEY: MISC_FEATURE
      118 <222> LOCATION: (26)..(26)
      119 <223> OTHER INFORMATION: where X is CONH2
      122 <400> SEQUENCE: 4
W--> 124 Xaa Asp Arg Val Ile Glu Val Val Gln Gly Ala Tyr Arg Ala Ile Arg
      125 1                5                10                15
W--> 128 Asn Ile Pro Arg Arg Ile Arg Gln Gly Xaa
      129                20                25
      132 <210> SEQ ID NO: 5
      133 <211> LENGTH: 11
      134 <212> TYPE: PRT
      135 <213> ORGANISM: Artificial Sequence
      137 <220> FEATURE:
      138 <223> OTHER INFORMATION: peptide N-terminal S-benzyl thioesters
      140 <220> FEATURE:
      141 <221> NAME/KEY: MISC_FEATURE
      142 <222> LOCATION: (1)..(1)
      143 <223> OTHER INFORMATION: where X is BnSCO
      146 <220> FEATURE:

```

## RAW SEQUENCE LISTING

DATE: 07/24/2002

PATENT APPLICATION: US/10/070,222

TIME: 15:53:00

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF3\07242002\J070222.raw

```

147 <221> NAME/KEY: MISC_FEATURE
148 <222> LOCATION: (11)..(11)
149 <223> OTHER INFORMATION: where X is CONH2
152 <400> SEQUENCE: 5
W--> 154 Xaa Gln Ala Lys Lys Lys Lys Leu Asp Lys Xaa
      155 1 5 10
158 <210> SEQ ID NO: 6
159 <211> LENGTH: 12
160 <212> TYPE: PRT
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: peptide N-terminal S-benzyl thioesters
166 <220> FEATURE:
167 <221> NAME/KEY: MISC_FEATURE
168 <222> LOCATION: (1)..(1)
169 <223> OTHER INFORMATION: where X is BnSCO
172 <220> FEATURE:
173 <221> NAME/KEY: MISC_FEATURE
174 <222> LOCATION: (12)..(12)
175 <223> OTHER INFORMATION: where X is CONH2
178 <400> SEQUENCE: 6
W--> 180 Xaa Ala Leu Pro Pro Leu Glu Arg Leu Thr Leu Xaa
      181 1 5 10
184 <210> SEQ ID NO: 7
185 <211> LENGTH: 29
186 <212> TYPE: PRT
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: peptide N-terminal S-benzyl thioesters
192 <220> FEATURE:
193 <221> NAME/KEY: MISC_FEATURE
194 <222> LOCATION: (1)..(1)
195 <223> OTHER INFORMATION: where X is BnSCO
198 <220> FEATURE:
199 <221> NAME/KEY: MISC_FEATURE
200 <222> LOCATION: (29)..(29)
201 <223> OTHER INFORMATION: where X is CONH2
204 <400> SEQUENCE: 7
W--> 206 Xaa Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met
      207 1 5 10 15
W--> 210 Gly Ala Trp Ser Gln Pro Lys Ser Lys Arg Lys Val Xaa
      211 20 25
214 <210> SEQ ID NO: 8
215 <211> LENGTH: 7
216 <212> TYPE: PRT
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: peptide N-terminal S-benzyl thioesters
222 <220> FEATURE:

```

## RAW SEQUENCE LISTING

DATE: 07/24/2002

PATENT APPLICATION: US/10/070,222

TIME: 15:53:00

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF3\07242002\J070222.raw

```

223 <221> NAME/KEY: MISC_FEATURE
224 <222> LOCATION: (1)..(1)
225 <223> OTHER INFORMATION: where X is BnSCO
228 <220> FEATURE:
229 <221> NAME/KEY: MISC_FEATURE
230 <222> LOCATION: (2)..(2)
231 <223> OTHER INFORMATION: where X is sarcosine
234 <220> FEATURE:
235 <221> NAME/KEY: MISC_FEATURE
236 <222> LOCATION: (7)..(7)
237 <223> OTHER INFORMATION: where X is CONH2
240 <400> SEQUENCE: 8
W--> 242 Xaa Xaa Leu Gly Ile Gly Xaa
      243 1          5
246 <210> SEQ ID NO: 9
247 <211> LENGTH: 18
248 <212> TYPE: PRT
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: peptide N-terminal S-benzyl thioesters
254 <220> FEATURE:
255 <221> NAME/KEY: MISC_FEATURE
256 <222> LOCATION: (1)..(1)
257 <223> OTHER INFORMATION: where X is BnSCO
260 <220> FEATURE:
261 <221> NAME/KEY: MISC_FEATURE
262 <222> LOCATION: (18)..(18)
263 <223> OTHER INFORMATION: where X is CONH2
266 <400> SEQUENCE: 9
W--> 268 Xaa Pro Gln Ile Lys Ile Trp Phe Pro Asn Arg Arg Lys Pro Phe Lys
      269 1          5          10          15
W--> 272 Lys Xaa
276 <210> SEQ ID NO: 10
277 <211> LENGTH: 6
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: 5'-cysteinyl oligonucleotide
284 <220> FEATURE:
285 <221> NAME/KEY: misc_feature
286 <222> LOCATION: (1)..(6)
287 <223> OTHER INFORMATION: where n is Cys(SBut)
290 <400> SEQUENCE: 10
W--> 291 nttttt
294 <210> SEQ ID NO: 11
295 <211> LENGTH: 6
296 <212> TYPE: DNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:

```

6

## RAW SEQUENCE LISTING

DATE: 07/24/2002

PATENT APPLICATION: US/10/070,222

TIME: 15:53:00

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF3\07242002\J070222.raw

```

300 <223> OTHER INFORMATION: 5'-cysteinyI oligonucleotide
302 <220> FEATURE:
303 <221> NAME/KEY: misc_feature
304 <222> LOCATION: (1)..(6)
305 <223> OTHER INFORMATION: where n is Cys(Trt)
308 <400> SEQUENCE: 11
W--> 309 ntttttt 6
312 <210> SEQ ID NO: 12
313 <211> LENGTH: 6
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: 5'-cysteinyI oligonucleotide
320 <220> FEATURE:
321 <221> NAME/KEY: misc_feature
322 <222> LOCATION: (1)..(6)
323 <223> OTHER INFORMATION: where n is Cys
326 <400> SEQUENCE: 12
W--> 327 ntttttt 6
330 <210> SEQ ID NO: 13
331 <211> LENGTH: 16
332 <212> TYPE: DNA
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <223> OTHER INFORMATION: 5'-cysteinyI oligonucleotide
338 <220> FEATURE:
339 <221> NAME/KEY: misc_feature
340 <222> LOCATION: (1)..(16)
341 <223> OTHER INFORMATION: where n is Cys(SBut)
344 <400> SEQUENCE: 13
W--> 345 nctcccaggc tcaaat 16
348 <210> SEQ ID NO: 14
349 <211> LENGTH: 16
350 <212> TYPE: DNA
351 <213> ORGANISM: Artificial Sequence
353 <220> FEATURE:
354 <223> OTHER INFORMATION: 5'-cysteinyI oligonucleotide
356 <220> FEATURE:
357 <221> NAME/KEY: misc_feature
358 <222> LOCATION: (1)..(16)
359 <223> OTHER INFORMATION: where n is Cys(SBut)
362 <400> SEQUENCE: 14
W--> 363 ngctcccacg ctcaaa 16
366 <210> SEQ ID NO: 15
367 <211> LENGTH: 16
368 <212> TYPE: DNA
369 <213> ORGANISM: Artificial Sequence
371 <220> FEATURE:
372 <223> OTHER INFORMATION: 5'-cysteinyI oligonucleotide

```

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/070,222

DATE: 07/24/2002

TIME: 15:53:01

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF3\07242002\J070222.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23